T.Rex
Request to Exit Detector

Features That Make a Difference:

- Zone of detection easily adjustable with pinpoint accuracy
- X-Y Targeting targets a specific area of detection
- Unlocks or shunts door automatically
- Hands-free, no buttons to push
- Integrated 90 dB local door alarm sounder independently controlled by access panel
- Infrared detection coupled with DSP prevents false "Door Forced Open" alarms
- 4 models available

T.Rex provides a complete solution to exit detection and door surveillance for access control applications. Outstanding innovations such as X-Y Targeting and DSP implementation make T.Rex the fastest and most reliable exit detector on the market today.

X-Y Targeting detects movement in very specific areas for added security. T.Rex is the first detector on the market to offer vertical targeting using two adjustable louvers located in the detection chamber. The installer “trims” the detection area by adjusting these louvers from 90° down to 5° and rotates the lens for horizontal adjustments. These two adjustments allow the installer to mount the detector so that the detection area will not “hit” the floor along the doorjamb, defeating any attempt to circumvent door supervision by sliding objects under the door.

T.Rex utilizes infrared detection coupled with DSP sampling specifically designed for access control applications. Since a truly effective exit detector must detect the extremely fast movement of a hand (the target) about to push the door or turn the door handle, the low sensitivity of intrusion detection alone is inadequate. Coupling the intrusion detection with DSP allows T.Rex to accurately detect exits and trigger appropriate “Door Forced Open” alarms.
Specifications

General
Detector Type: Passive infrared
Filter Technology: Digital Signal Processing (DSP)
Detector Lens: Curtain-type Fresnel lens
Detection Range
- Narrow Targeting Area: 3 m (10 ft)
- Whole Body: 6 m (20 ft)
Piezo Buzzer: 90 dB at 28 VDC, 5-28 VDC, 20 mA (XL & XL2 only)
Main Relay Contacts: SPDT, 1A max @ 30 VDC max
Main Relay Timer: Adjustable, 0.5 to 60 seconds
Main Relay Recycle Timer: Fixed, 0.75 seconds off
Lock Control Relay: Available on LT2 and XL2 models only, solid-state relay, N.C., 2A max @ 30 VDC, timed at 2 seconds fixed
Tamper Switch: N.C., 100 mA max @ 30 VDC max
Indicator Light: Red/Green LED
Mounting: Optional backplate available for mounting the T.REX on a standard single-gang electrical box

Physical
Dimensions (H x W x D): 4.5 x 19 x 4.75 cm
(1.75 x 7.125 x 1.875 in)

Electrical
Power Consumption: 12-28 VDC, 50 mA

Regulatory
Certifications: UL294, CE, FCC, ULC

Model Numbers
- T.REX-LT: T.Rex request to exit detector, with tamper and timer, white
- T.REX-XL: T.Rex request to exit detector, with tamper, piezo, and timer, white
- T.REX-LT2: T.Rex request to exit detector, with tamper, timer, and 2 relays, white
- T.REX-XL2: T.Rex request to exit detector, with tamper, piezo, timer, and 2 relays, white
- T.REX-XLBLK: T.Rex request to exit detector, with tamper, piezo, and timer, black
- T.REX-XL2BLK: T.Rex request to exit detector, with tamper, piezo, timer, and 2 relays, black
- T.REX-PLATE: T.REX accessory, back plate, white

Product Diagram

Tamper switch N.C.
Function selection jumpers: Latch, fast/slow detection, LED disable
On-board computer
Infrared sensor
Main relay
Lock control relay
Power terminals and tamper output
X-Y targeting using two adjustable louvers to target a specific area of detection such as a door handle or panic bar
16-step digital timer from 0.5 to 60 seconds
Main relay timer jumpers
Integrated 90 dB piezo for door alarm controlled by remote panel or through on-board relay (5-28 VDC)
Detection Pattern
Single Door Mounting Positions
T.Rex Plate

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

© 2008 Tyco Safety Products, Canada, Ltd. All rights reserved. KT0114-DS-200801-R01-LT-EN

www.kantech.com